

WHAT IS CLAIMED IS:

1. A communication network system that can provide contents information for users by way of a communication network, said system comprising:

a contents server disposed as a source of information, for storing contents information;

a portal server, responsive to a request which a user makes through communication terminal equipment, for transmitting contents information to the communication terminal equipment; and

a conversion/formatting server disposed between said contents server and said portal server, for converting contents information which said conversion/formatting server has acquired from said contents server into contents information in a predetermined format, formatting the contents information in the predetermined format into contents information suitable for display on the communication terminal equipment in response to a request from said portal server, and transmitting the formatted contents information to said portal server.

2. The communication network system according to Claim 1, wherein in response to a request for information browsing which a user makes through communication terminal equipment, said portal server provides an instruction for transmission of information to be browsed for said conversion/formatting server, and said conversion/formatting server, in response to the information transmitter instruction from said portal

server, converts contents information stored in said contents server into contents information in the predetermined format which can be browsed and stores it therein, and formats the contents information in the predetermined format into contents information suitable for display on the communication terminal equipment and transmits the formatted contents information to said portal server.

10 3. The communication network system according to Claim 2, wherein in response to a request for information retrieval which a user makes through communication terminal equipment, said portal server provides an instruction for information retrieval for said conversion/formatting server, and said conversion/formatting server, in response to the information retrieval instruction from said portal server, retrieves desired contents information in the predetermined format which is stored therein, and formats the desired contents information in the predetermined format into contents information suitable for display on the communication terminal equipment and transmits the formatted contents information to said portal server.

25 4. The communication network system according to Claim 1, wherein in response to a request for performance of a predetermined process which a user makes through communication terminal equipment, said portal server provides an instruction for the performance of the predetermined process for said conversion/formatting server, and said conversion/formatting server, in response

to the instruction for the performance of the predetermined process from said portal server, converts contents information which is stored in said contents server into contents information which corresponds to the instruction
5 for the performance of the predetermined process, and formats the resultant contents information into contents information suitable for display on the communication terminal equipment and transmits the formatted contents information to said portal server.

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5. The communication network system according to Claim 1, wherein in response to a request for performance of a predetermined process which a user makes through communication terminal equipment, said portal server
15 provides an instruction for the performance of the predetermined process for said conversion/formatting server, and said conversion/formatting server, in response to the instruction for the performance of the predetermined process from said portal server, converts contents
20 information which is stored in said contents server into contents information which corresponds to the instruction for the performance of the predetermined process, stores the resultant contents information therein, and formats the resultant contents information into contents information
25 suitable for display on the communication terminal equipment and directly transmits the formatted contents information to the communication terminal equipment according to event information added to the instruction for the performance of the predetermined process.

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6. The communication network system according to Claim 1, wherein said conversion/formatting server performs a formatting process so as to generate application data which defines a display format in which the communication terminal equipment can display contents information in the predetermined format transmitted thereto, and transmits the application data to said portal server as well as the contents information in the predetermined format.

7. The communication network system according to Claim 1, wherein said conversion/formatting server performs a formatting process of formatting the contents information in the predetermined format into contents information which can be displayed on the communication terminal equipment, and transmits the formatted contents information to said portal server.

8. The communication network system according to Claim 7, wherein the formatting process performed by said conversion/formatting server is a process of executing an application that defines a display format in which the communication terminal equipment can display the contents information in the predetermined format.

9. The communication network system according to Claim 1, wherein said communication network is the Internet.

10. The communication network system according to Claim 1, wherein said communication network is a radio

communication network.

11. The communication network system according to
Claim 1, wherein said communication network is a wire
5 communication network.

12. The communication network system according to
Claim 1, wherein said portal server transmits and receives
contents information from itself to the communication
10 terminal equipment and vice versa by using E-mail.

13. The communication network system according to
Claim 1, wherein said portal server transmits and receives
contents information from itself to the communication
15 terminal equipment and vice versa by performing a Web
processing.